

DU PONT

MATERIAL SAFETY DATA SHEET

DPM 950-28

SECTION I

MANUFACTURER'S NAME E. I. du Pont de Nemours & Co. (Inc.)		EMERGENCY TELEPHONE NO. (302) 774-7500
ADDRESS (Number, Street, City, State, and ZIP Code) Wilmington, DE 19898		
CHEMICAL NAME AND SYNONYMS Copper Cyanide (Cuprous Cyanide)		TRADE NAME AND SYNONYMS Copper Cyanide
CHEMICAL FAMILY Cyanide	FORMULA CuCN	

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

SECTION III PHYSICAL DATA

BOILING POINT (°F) (Decomposes) Not Applicable	SPECIFIC GRAVITY (H ₂ O=1)	2.92
VAPOR PRESSURE (mm Hg) Not Applicable	PERCENT VOLATILE BY VOLUME (%)	Not Applicable
VAPOR DENSITY (AIR=1) Not Applicable	EVAPORATION RATE	Not Applicable
SOLUBILITY IN WATER Insoluble		
APPEARANCE AND COLOR Creamy white powder		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) (nonflammable) Not Applicable	FLAMMABLE LIMITS Not Applicable	LeI
EXTINGUISHING MEDIA Not Applicable		
SPECIAL FIRE FIGHTING PROCEDURES Not Applicable		

UNUSUAL FIRE AND EXPLOSION HAZARDS
Reacts violently with nitrates and other oxidizing salts

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
5 mg/M³ (as cyanide) - skin

EFFECTS OF OVEREXPOSURE

May be fatal if swallowed or inhaled. Causes eye burns and may irritate skin.

EMERGENCY AND FIRST AID PROCEDURES Immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, call a physician. Always have a Cyanide First Aid Kit on hand. Carry person to fresh air; have him lie down. Remove contaminated clothing. Keep person warm. Start treatment immediately. See Kit or product label for instructions. Call a physician

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SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Reacts with boiling dilute hydrochloric acid to form cuprous chloride and HCN gas
	STABLE	X	

INCOMPATIBILITY (Materials to avoid)

Contact with acids or acid salts liberates poisonous gas

HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen Cyanide

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Do not breathe dust or gas. Do not get in eyes. Avoid skin contact.

WASTE DISPOSAL METHOD

Sweep up spilled material and return to container. Do not flush solutions to sewer which may contain acids.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specific Type)

Use respirator (U. S. Bureau of Mines) if there is chance of inhaling dust

VENTILATION	LOCAL EXHAUST	SPECIAL Air or oxygen mask in emergencies
	MECHANICAL (General)	
	Not Applicable	OTHER Not Applicable

PROTECTIVE GLOVES Rubber gloves for solutions. Dry cotton gloves (powder)

EYE PROTECTION Chemical safety goggles and/or face shield

OTHER PROTECTIVE EQUIPMENT

Hard hats or brimmed felt hats; leather or rubber safety shoes; long sleeved shirts.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Wash thoroughly after handling. Keep container closed and away from acids. Store in a dry place. Wash contaminated clothing before re-use.

OTHER PRECAUTIONS

Food, foodstuffs, gum, beverages, and tobacco should not be stored or carried into work areas where contamination with copper cyanide is possible.

*For more information refer to: Du Pont Copper Cyanide Data Sheet No. 14

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Manufacturing Chemists Association SD-30

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